

CHICAGO PNEUMATIC TOOL COMPANY

Hammers, Drills and Hoists

GENERAL OFFICES

1002 Chicago Pneumatic Building
NEW YORK, N. Y.

SALES AND SERVICE BRANCHES

DOMESTIC

BIRMINGHAM
BOSTON
BUFFALO
CHICAGO

CINCINNATI
CLEVELAND
DETROIT
EL PASO

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PORTLAND, ORE.
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FOREIGN

BARCELONA
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BUENOS AIRES
CADIZ
CHRISTIANIA
FRASERBURGH

HAVANA
HONOLULU
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LONDON
MADRID
MILAN
MONTREAL

OSAKA
PARIS
SEOUL
TOKYO

TORONTO
VANCOUVER
WINNIPEG

Products.

PNEUMATIC TOOLS, including CHIPPING, CALKING and RIVETING HAMMERS, AIR DRILLS, REVERSIBLE REAMING and TAPPING MACHINES, WOOD BORERS, and "CLOSE QUARTERS" DRILLS, SELF-ROTATING HAMMER DRILLS, ROCK DRILLS, ELECTRIC DRILLS and GRINDERS.

PNEUMATIC GEARED HOISTS and WINCHES.

Also, Sinkers, Stoppers, Hand Drills, Plug and Feather Drills, for use in mines, quarries and contract jobs generally.

For Air Compressors and Semi-Diesel Oil and Gas Engines, see pages 784-85.

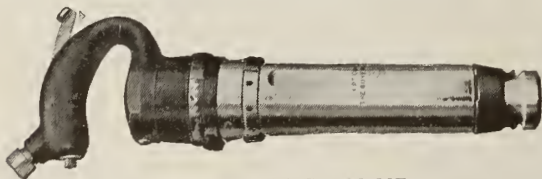
Boyer Chipping, Calking and Riveting Hammers.



BOYER CHIPPING AND CALKING HAMMER

Size	Diam. piston, in.	Length stroke, in.	Blows per min.	Cu. ft. free air per min.	Net wgt., lbs.
BK-1	1 1/4	1	3200	10	11 1/2
BK-2	1 1/2	2	2800	12	13
BK-3	1 3/4	3	2400	13	14 1/2
BK-4	1 3/8	4	1600	14	15 1/2

BK-1 Light chipping or medium calking.
BK-2 Average chipping and calking.
BK-3 Heavy chipping or calking and heading small hot or cold rivets.
BK-4 For heaviest chipping and light riveting.



BOYER RIVETING HAMMER

Type	Size No.	Diam. piston, in.	Length stroke, in.	Capacity rivets, in.	Blows per min.	Cu. ft. free air per min.	Shipping wgt., lbs.
Type H...	H-3	1 1/8	3	3/8	1542	20	15 1/2
	H-4	1 1/8	4	1/2	1272	22	16
	50	1 1/8	5	3/4	1000	25	24
	60	1 1/8	6	7/8	760	25	29
Standard.	80	1 1/8	8	1 1/8	700	25	32
	90	1 1/8	9	1 1/4	620	25	33
	80-X	1 1/8	8	1 3/8	800	28	32

May be equipped with safety device for preventing accidental shooting out of piston or rivet set.

"Little Giant" Air Drills.

Of the balanced piston type, and consist of four single acting cylinders arranged in pairs, each pair of



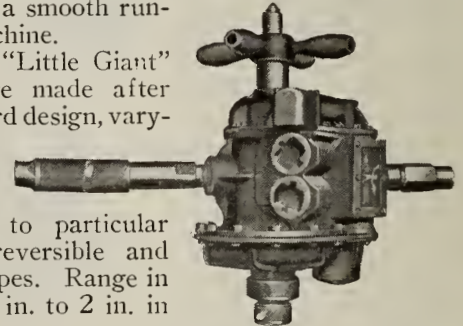
TRADE-MARK

pistons being connected to opposite wrists of a double crank shaft. Pistons of each pair travel in opposite directions at all parts of the stroke, insuring a smooth running machine.

All "Little Giant" drills are made after a standard design, vary-

ing only in size and construction necessary

to adapt them to particular uses; and in reversible and non-reversible types. Range in drilling from 1/4 in. to 2 in. in steel.



"LITTLE GIANT" AIR DRILL

"LITTLE GIANT" DRILLS, REVERSIBLE AND NON-REVERSIBLE

Size	Diam. piston, in.	Length stroke, in.	Free air consumption per min., 80 lbs.	Speed light r. p. m.	Size socket	Drilling capacity, in.	Net wgt., lbs.
No. 10F	1 1/8	1 1/8	11	2400	No. 00 Chuck	1/4	8
No. 10S	1 1/8	1 1/8	7	1200	No. 0 Chuck	3/8	8 3/4
No. 3	1 1/4	7/8	15	1050 2025	No. 0 Chuck or No. 1 M. T.	1/2	12
No. 4	1 1/2	1 1/4	20	700	No. 2 M. T.	7/8	22
No. 2	1 1/8	1 3/8	25	480	No. 3 M. T.	1 1/4	40
No. 1	2	1 7/8	35	340	No. 4 M. T.	2	58

No. 10F fitted with pistol grip handle; the others fitted with feed screw or spade handle, as desired. Nos. 10S, 3 and 4 may be fitted with breastplate.

Nos. 3, 4, 2 and 1 "Little Giant" drills may be furnished in reversible style and known as 3R, 4R, 2R and 1R. Specifications practically the same. They reverse by means of a reversing handle at the side.

"LITTLE GIANT" REVERSIBLE REAMING AND TAPPING MACHINES (Also used for flue rolling)

Size	Speed light, r. p. m.	Wgt., lbs.	Capacity, in.		
			Ream- ing	Tap- ing	Flue rolling
12	310	44	1	1	2
11	240	60	2	2	2 1/2

"LITTLE GIANT" WOOD BORERS

Size	Speed light, r. p. m.	Wgt., lbs.	Capacity, in.
10	1200	8	3/4
3	750 and 1400	12	1
5	650	24	2

LITTLE GIANT "CLOSE QUARTERS" DRILLS

Size	Size socket	Capacity drilling, in.	Air consumption per min.	Speed light, r. p. m.	Wgt., lbs.	Distance side to center of spindle, in.
81	No. 3 M. T.	1 1/4	25	315	45	1 1/8
91	No. 4 M. T.	2	35	190	50	1 1/2

"Hammer" Self-rotating Hammer Drills.

"Hammer" self-rotating hammer drills are used for mining, shaft sinking, tunneling, drifting, bench work, block holing, breaking boulders, hitch cutting,

quarrying, coal mining, road building, trench work, ore drilling. They are made in two sizes, designated by the symbols A-86 and B-86. The machine can be furnished for either dry or wet work. The change from dry to wet, or vice versa, can be made without any trouble.

These drills are equipped with independent mechanical rotation. The operation of the machine is accomplished by compressed air being first admitted into a rotary motor located in the back head of "Hummer" drills, and, after serving its purpose, is exhausted into the valve chamber of the striking mechanism, where it is utilized again; thus the compressed air performs a double duty without increasing its consumption in any way, and thereby conserving energy.

Motion of the rotary motor is communicated to the drill chuck by suitable transmission, providing "Hummer" drills with independent rotation and its incidental advantages.

This design results in a sturdy, well balanced and compact structure throughout. By locating the rotation motor at the upper end, it is farthest removed from the strains and shocks of the hammer blows at the front end of the drill, and the distribution of the parts is such as to permit each part being made simple and strong and well calculated to stand up under the severe conditions to which the rock drill is ordinarily subjected.

For further information write for Bulletin 345.

GENERAL SPECIFICATIONS
"HUMMER" DRILLS
With Independent Mechanical Rotation

Designating symbol.....	A-86	B-86
Diam. cylinder, in.....	2 3/8	2 1/4
Length stroke, in.....	3 1/4	3 1/4
Wgt., lbs.....	45	58
Length over all, in.....	18 3/4	21 1/4
Size hose to use, in.....	3/4	3/4
Size steel (hollow hex.), in.....	1	1
Code word.....	Rezaba	Rezax



A-86 "HUMMER" SELF-ROTATING HAMMER DRILL.
Fastest drilling; easiest to operate; lowest in upkeep

Chicago "Gatling" and "Slogger" Rock Drills.

"GATLING" DRILL—A one-man drill; weighs 145 lbs. and easily drills up to 8 ft. It strikes a very rapid blow—800 per minute on the long stroke—which accounts for its quick drilling capacity.

Write for Bulletin 346.

"SLOGGER" DRILL—Strikes a hard, rapid blow. Made in 4 sizes. Distinctive features are improved valve motion, adjustable shell, positive lubrication, release rotation, bushed front head with taper sleeve and chuck for taking unshanked steels.

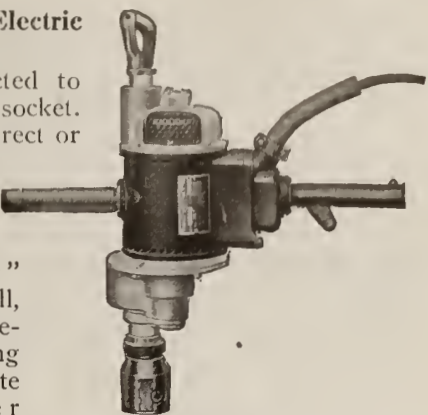
DATA, CHICAGO "GATLING" AND "SLOGGER" ROCK DRILLS

Code	Symbol	Diam. cylinder, in.	Length stroke, in.	Depth vertical hole will drill, ft.	Diam. supply inlet, in.	Wgt., unmounted, lbs.
Rebueno	C22 Gatling	2 3/4	6 1/2	8	3/4	145
Rebsieb	C2 Slogger	2 3/4	6 1/2	10	1	285
Rebstock	D2 Slogger	3	6 1/2	14	1	295
Rebucous	E2 Slogger	3 1/4	6 1/2	16	1	330
Rebudiar	F2 Slogger	3 3/8	7 1/2	20	1	400

"Little Giant" Electric Drills.

Can be connected to ordinary lamp socket. Operate on either direct or alternating current (of 60 cycles or less) single-phase.

"Little Giant" electric hammer drill, Universal type, designed for drilling in stone or concrete where a hammer blow is necessary to do effective work.



"LITTLE GIANT" ELECTRIC DRILL
Size No. 1 BSS

CAPACITIES OF "LITTLE GIANT" ELECTRIC DRILLS
Capacity (in metal) in inches

Size	*Universal Electric Drills for 110 and 220 volts	Heavy Duty D.C. for 110 and 220 volts	** Heavy Duty A.C. for 2-phase and 3-phase	Heavy Duty D.C. for street railway work 600 volts
000	3/8
000X	1/4
00	3/8
0	3/8	3/8	3/8	..
1B	1/2	1/2	1/2	1/2
2B	3/4	3/4	3/4	3/4
3B	1 1/4	1 1/4	1 1/4	1 1/4
4B	..	2	2	1 1/2

*For connection to ordinary lamp socket. D. C. or A. C. of 60 cycles or less, single-phase, interchangeably.
**Furnished in side spindle style only. Standard windings are for 60 cycles, 110 or 220 volts. Nos. 2, 3 and 4 can be wound for 440 volts.

"Little Giant" Portable Electric Grinders.

For use in foundry, machine and structural shops. Built in 2 sizes for 110-220-600 volts direct current, and 110-220 volts, 2-phase or 3-phase, alternating current. No. 5 BP carries 5 by 3/4-in. wheel; No. 8 BP carries 6 by 1 1/4-in. wheel.

"Little Giant" Geared Air Hoists.

Great hoisting power; unusually rugged steel construction; economy of air; absolute safety. Simple, valveless air motor operates equally well in either direction and has repeatedly demonstrated its power and air economy advantages. Automatic air brake makes slippage impossible. "Limit" stop device supplies infallible protection against jam-ups from overhoisting. All gears cut from solid stock, accurately machined and case hardened. Lubrication of the "splash" type. Made in 5 capacities from 1 to 10 tons as follows:



"LITTLE GIANT" GEARED AIR HOIST

CAPACITIES AND LIFTING SPEEDS OF "LITTLE GIANT" AIR HOISTS

Size, No.	Capacity, tons	Height of lift, ft.	Speed of lift per min., ft.	Net wgt., lbs.	Shipping wgt., lbs.	Shortest distance between hooks, in.	Cu. ft. of free air consumed per ft. lift, 80 lbs. pressure	Code
10	1	9	28	355	480	39	3	Accrescent
11	1 1/2	9	16	360	485	39	4	Accretion
12	3	11	10	465	600	45	8	Accroach
13	5	12	7	820	970	53 1/2	15	Accroire
14	10	12	4	1080	1250	61 1/2	27	Accrue

When desired, can be supplied with trolleys designed to operate freely on I-beams or channels, facilitating quick transportation of load. 3 types of trolleys—plain trolley, single track geared trolley, or double track geared trolley. Specify type trolley in addition to capacity of hoist.